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### **COMMISSIONERS**

LEA MARQUEZ PETERSON, Chairwoman SANDRA D. KENNEDY JUSTIN OLSON ANNA TOVAR JIM O'CONNOR

IN THE MATTER OF POSSIBLE MODIFICATIONS TO THE COMMISSION'S ENERGY RULES

DOCKET NO. RU-00000A-18-0284

Joint Stakeholder Comments in Support of the Commission's Energy Rules

#### Joint Stakeholder Comments in Support of the Commission's Energy Rules

The following comments are provided on behalf of the American Council for an Energy-Efficient Economy, American Lung Association, Arizona Interfaith Power and Light, Arizona Solar Energy Industries Association (AriSEIA), AZ Public Health Association, CHISPA Arizona, Citizen's Climate Lobby, Elders Climate Action, Natural Resources Defense Council, Northern Arizona Climate Change Alliance, Pima County, Prescott Interfaith Climate Action Team, Sierra Club, Solar Energy Industries Association (SEIA), Solar Gain, Solar United Neighbors, Southwest Energy Efficiency Project (SWEEP), Sunrun, Tó Nizhóní Ání, Vote Solar, Western Grid Group, Western Resource Advocates (WRA), Yavapai Climate Change Coalition (together, "The Signatories") strongly support of the Commission's Energy Rules. Together, we urge the Commission

to act expeditiously to finalize and implement its Energy Rules including its new proposed:

- Carbon-free electricity standard which would require Arizona Public Service (APS) and Tucson Electric Power (TEP) to be 100% carbon-free by 2050 and reduce their carbon emissions by 50% by 2032 and 75% by 2040.
- Energy efficiency standard which would require APS and TEP to cut energy
  waste over the next decade and provide customers with more rebates and services
  to replace old air conditioners, swap out inefficient water heaters, and otherwise
  save energy.
- Distributed storage standard which will drive the deployment of more than ~200 megawatts of customer-owned or leased energy storage systems by 2035, the equivalent of ~40,000 home battery storage systems. And,
- Improvements to the integrated resource planning process which will support
  greater transparency and stakeholder engagement as utilities develop their 15-year
  plans for the power system, as well as favorable siting for renewable energy
  projects in fossil fuel impacted communities.

The Commission's Energy Rules will ensure continued progress and accountability toward clean energy investment by Arizona's regulated utilities and were informed by years of study, more than a dozen public meetings, thousands of written comments, and hundreds of hours of engagement by stakeholders.

The Rules are achievable and necessary to address the impacts of climate change, are consistent with policies being implemented across the Western United States to secure a zero-carbon future, and will ensure that Arizona prioritizes clean energy investment that creates in-state jobs, supports communities impacted by power plant closure, capitalizes on Arizona's superior solar resource, reduces ratepayers costs, minimizes the risk of future stranded costs, maximizes the benefits of energy efficiency, and improves local air quality and public health.

Attached herein as Appendix A, we are pleased to provide an index of analyses, studies, white papers, reports, and original research that document the public interest case for clean energy investment and enactment of the Arizona Commission's Energy Rules. Additionally, we are pleased to present Appendix B, a chronicle of the oral and written comments lodged in support of the Commission's Energy Rules since Docket No. RU-00000A-18-0284 was established in 2018.

We hope these resources are useful to the Commission as it moves forward with the next steps to finalize this landmark regulation.

# APPENDIX A

# APPENDIX A: INDEX OF ANALYSES, STUDIES, WHITE PAPERS, REPORTS, AND ORIGINAL RESEARCH THAT DOCUMENT THE PUBLIC INTEREST CASE FOR CLEAN ENERGY INVESTMENT AND ENACTMENT OF THE COMMISSION'S ENERGY RULES

## **Public Opinion Research**

lame	Author	Date	Source	High-Level Summary of Study Results
Arizona PIRG Education Fund Energy Poll	WPA Intelligence	January 2019	https://arizonapir g.org/sites/pirg/fi les/resources/Pol 1%20-%20Energ y%202-19.pdf	This wide-ranging poll, which was directed by the Arizona PIRG Education Fund and conducted by Washington, D.Cbased WPA Intelligence, a conservative pollster, tested likely Arizona voter opinions on topics including renewable energy, energy efficiency, electric vehicles, the Navajo Generating Station, and climate change. Key findings include the following:  • Renewable Energy: Eight-in-ten (82%) think it is very (56%) or somewhat (26%) important for Arizona to promote the growth of its own clean energy sources, such as wind and solar power, versus importing fossil fuels like natural gas and oil.  • Energy Efficiency: Nearly seven-in-ten (68%) likely voters in Arizona agree that regulations applied to utility providers, such as Arizona Public Service, Tucson Electric Power, UNS Energy Corporation, or Salt River Project should be increased to ensure they are offering energy efficiency to all of their customers.  • Electric Vehicles: A majority (57%) support an investment from our utility providers for electric vehicle charging infrastructure to be developed in underserved communities, such as highway corridors or rural areas, or in areas where the private sector is unlikely to serve or invest.  • Navajo Generating Station: More than eight-in-ten (83%) think it is "very" (56%) or "somewhat" (27%) important the owners of the Navajo Generating Station provide financial assistance and support such as job training to communities impacted by the closing of the plant.  • Climate Change: A majority of Arizonans (64%) agree that if the federal government fails to address the issue of climate change, the state or local

2020 Conservation in the West Poll	Colorado College	Feb. 2020	https://www.colo radocollege.edu/ other/stateofther ockies/conservati oninthewest/202 0/	The annual Colorado College State of the Rockies Poll polls registered voters in Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming for their opinions on land conservation, energy, water, wildlife and other pressing challenges in the Mountain West. Major findings from the 2020 poll include the following:  • 70% of Arizonans would support a requirement for the state to gradually transition to 100% of our energy being produced from clean, renewable sources like solar and wind power over the next thirty years (i.e.,. by 2050).  • 64% of Arizonans think that action should be taken to address climate change.  • 75% of Arizonans think it is important that Arizona's governor has a plan to
				<ul> <li>89% of Arizonans would support a proposal that would require oil and gas companies to use updated equipment and technology to prevent leaks of methane gas and other pollution into the air.</li> </ul>

## Clean Energy

Name	Author	Date	Source	High-Level Summary of Study Results
Western Interconnect Energy Study	Jesse Jenkins and Greg Shivley, Clean Air Task Force, WRA	March 2020	https://docke t.images.azc c.gov/E0000 05265.pdf	WRA presented the results of the <i>Western Interconnect Energy Study</i> at the Arizona Corporation Commission's March 2020 Energy Rules Workshop. The Study, conducted by Jesse Jenkins and Greg Shivley of the Clean Air Task Force, analyzed the relative costs of different policy options (e.g., renewable energy standard, clean energy standard, and tech clean energy standard) to reach zero-carbon electric generation by 2045 in the Western Electricity Coordinating Council (WECC).
Joint Stakeholder	16 Joint Stakeholders <sup>1</sup>	Feb. 2018	https://docke t.images.azc	An independent analysis endorsed by 16 different organizations was conducted to demonstrate a clear alternative energy pathway to what APS and TEP presented in their

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<sup>&</sup>lt;sup>1</sup> Western Resource Advocates, Arizona Utility Ratepayer Alliance, Diné CARE, To Nizhoni Ani, Western Grid Group, Arizona Interfaith Power and Light, Conservative Alliance for Solar Energy, Tucson 2030 District, Arizona Solar Energy Industries Association, Efficiency First Arizona, National Association of Energy Service Companies, Solar Energy Industries Association, Polyisocyanurate Insulation Manufacturers Association, Arizona Community Action Association (Now Wildfire), Southwest Energy Efficiency Project, and Our Mother of Sorrows Catholic Church

Alternative Integrated Resource Planning Portfolios			c.gov/00001 85642.pdf	most recent Integrated Resources Plans. The "Alternative Portfolios" represent an investment in a more diverse mix of resources, save over \$522 million dollars (NPV) over the 15-year period, reduce air pollution and water use, and meet energy demands and utilities' operational needs.  Specifically, the Alternative Portfolios invest in utility-scale solar, wind, biomass, storage, demand-side management, and a modest amount of new natural gas capacity, and meet annual energy demands and the utilities' ramping and operational needs. They also reduce air pollution emissions and water use: In 2032, the Alternative Portfolios consume 16,000 acre-feet less water than the utility-proposed portfolios, or enough water to meet the annual residential needs of over 170,000 people.
Summary of Alternative Resource Plan Analysis for Tucson Electric Power	Strategen Consulting, LLC	Oct. 15th, 2020	https://docke t.images.azc c.gov/E0000 09567.pdf?i =161037866 8537	Strategen's findings demonstrated that including the following additional features to TEP's resource portfolio would be beneficial:  • Achieving 40% cumulative energy savings by 2030 from a broad portfolio of energy efficiency measures. EE is one of the most cost-competitive resources. Higher investment in EE can yield benefits by reducing system peak, saving energy costs, and reducing emissions. The specific portfolio of EE measures can also be tailored to match TEP's evolving load and resource needs.  • Allowing for economic cycling and economic retirement of coal resources. Continued operation of coal units is not only environmentally detrimental but results in significant costs for ratepayers due to the high cost and inflexibility of coal relative to other available resources.

## Renewable Energy

Name	Author	Date	Source	High-Level Summary of Study Results
Arizona Renewable Energy	Ceres	March 2020	ages.azcc.gov/E	Ceres recently commissioned an independent analysis on the benefits of Arizona's Renewable Energy Standard and Tariff (REST). The study documents the benefits delivered to customers in the form of avoided energy and generation capacity costs,

Standard and Tariff: 2020 Progress Report				reduced carbon emissions, reduced criteria air pollutants, water savings, increased investment in the state for a growing new industry, and technology cost reductions.  Major findings include the following:  From 2008 to 2018, gross benefits to utility customers and the public from implementing the REST have totaled nearly \$2 billion.  Cumulative avoided conventional energy costs (2008-2018):  APS system is approximately \$787 million.  TEP system is approximately \$251 million.  \$297 million in cumulative avoided conventional power plant capacity costs (2008-2018).  3% overall reduction in carbon emissions relative to 2005 levels.  \$246 million in cumulative benefits from a reduction in criteria air pollutants.  Savings of 712 acre-feet of water annually, enough water to serve the needs of nearly 44,000 Arizonans each year.  Solar industry investment totaled \$16 billion in Arizona (more than \$735 million in 2018 alone).  Solar industry is a major source of employment in Arizona, with more than 7,500 jobs reported in 2018.  47% of total installed solar and wind capacity in Arizona is in rural areas, stimulating economic development.  Achieving 45% by 2030, this could result in a billion of net benefits from generation-related costs in the next ten years for APS alone.
The Economic and Fiscal Benefits of Rural Utility-Scale Renewable Energy Facilities in Arizona	The Western Way	October, 2018	https://docket.im ages.azcc.gov/0 000195827.pdf? i=16102661304 87	<ul> <li>In 2018, the total direct and indirect benefits of annual rural renewable energy operations in Arizona will be an estimated \$63.3 million in total output (\$39.5 million direct output + \$23.8 million indirect and induced output) produced by 702 employees (234 direct employees + 468 indirect employees) earning a total of about \$33.5 million (\$15.1 million direct earnings + \$18.4 million indirect earnings).</li> <li>The benefits will include a direct fiscal benefit to schools in Arizona of an estimated \$882,000 in property tax revenue.</li> </ul>

## **Distributed Generation (DG)**

Name	Author	Date	Source	High-Level Summary of Study Results
Decision 75859	Arizona Corporation Commission	January 2017	https://docket.im ages.azcc.gov/0 000176114.pdf	<ul> <li>The Commission's Arizona Value of DG decision ended net metering and replaced it with net billing based on the value of DG.</li> <li>This decision was implemented in APS rate case Decision 76295 and TEP/UNSE rate case Phase II Decision 76899.</li> </ul>
The True Value of Solar: Measuring the Benefits of Rooftop Solar	Searson, Emma and Rob Sargent, Environment America Research and Policy Center	July 2019	https://environm entamerica.org/s ites/environment /files/resources/ AME%20Rooft op%20Solar%20 Jul19%20web.p df	This report summarizes the value provided by rooftop solar including an analysis of existing studies.
Rooftop solar: Net Metering is a net benefit	Muro, Mark, Devashree Saha. Brookings	May 2016	https://www.bro okings.edu/resea rch/rooftop-solar -net-metering-is- a-net-benefit/	This report shows that benefit cost studies conducted by utility commissions routinely show the benefits of net metering exceed cost. Note: Arizona no longer has net metering and DG is compensated at a lower rate.

## **Energy Efficiency**

Name	Author	Date	Source	High-Level Summary of Study Results
Arizona Electric Utility Energy Efficiency	Southwest Energy Efficiency	THE PARTY OF THE P	http://www.swe nergy.org/Data/ Sites/1/media/aa a-documents-20	This factsheet from SWEEP compiles data from Arizona's three largest electric utilities on the net benefits that their energy efficiency programs have delivered to Arizona from 2009-2018. According to each utility's own reporting, net economic benefits from APS', SRP's, and TEP's energy efficiency programs totaled \$3.7 billion

Programs: A Success Story	Project (SWEEP)		19/fact-sheets/a z-utility-ee-fact- sheet-2019.pdf	from 2009-2018. This is equivalent to the electricity bills paid by the 2.4 million residential customers of the three utilities for nearly one year. Additionally:  • The energy efficiency programs implemented during 2009-2018 resulted in water savings of around 2.6 billion gallons in 2018 from the reduced operation of thermal power plants, enough water to supply about 19,000 typical Arizona households.  • As a result of a decade of energy efficiency programs, the three utilities cut their carbon dioxide emissions in 2018 by around 5.6 million metric tons. This is equivalent to taking approximately 1.15 million passenger vehicles off the road. SWEEP also developed state factsheets for electric utilities in Colorado, Nevada, New Mexico, and Utah. See additional information here:  https://www.swenergy.org/pubs/utility-energy-efficiency-programs-in-the-southwest-generating-big-benefits-for-consumers-the-clima
The Future of U.S. Electricity Efficiency Programs Funded by Utility Customers: Program Spending and Savings Projections to 2030	U.S. Department of Energy Lawrence Berkeley National Lab (LBL)	Nov. 2018	https://emp.lbl.g ov/publications/ future-us-electri city-efficiency	This study examines three scenarios for energy efficiency achievement by state through 2030 — low, medium and high cases — and the associated costs for the achievement of those saving scenarios. The Arizona assessment reveals the following for each of the three scenarios:  • Low scenario:  • Anticipates 1% energy savings per year in 2030 for SRP; 0.5% savings for investor-owned utilities  • Projects state utilities will spend \$144 million per year total in 2030 to achieve this level of savings  • Medium scenario  • Anticipates 2.0% energy savings per year in 2030 for SRP; 1.0% savings for investor-owned utilities  • Projects state utilities will spend \$208 million per year total in 2030 to achieve this level of savings  • High scenario

<sup>&</sup>lt;sup>2</sup> Ibid, Page 2. <sup>3</sup> Ibid, Page 2.

				<ul> <li>Anticipates 2.0% energy savings per year in 2030 for SRP; 1.5% savings for investor-owned utilities</li> <li>Projects state utilities will spend \$269 million per year total in 2030 to achieve this level of savings</li> <li>In comparison, LBL reports that the state's utilities spent \$131 million on efficiency in 2016.</li> </ul>
Annual Utility Demand Side Management Reports Filed with the ACC and the SRP Board	APS, TEP, SRP	- March of each year for APS and TEP - Fall for SRP	SWEEP can provide reports to the Commissioner for any year of interest	Each year, the regulated utilities and SRP produce an annual report documenting the costs and benefits of their energy efficiency programs and the associated environmental benefits (e.g. avoided water use, avoided air pollution, etc.). SWEEP can provide reports to the Commissioner for any year or years of interest.
Is the "duck curve" eroding the value of energy efficiency?	SWEEP	August 2018	https://www.sw energy.org/pubs /is-theduck-cu rveeroding-the -value-of-energ y-efficiency-	In recent years, utilities in the southwestern U.S. and California have experienced significant increases in the penetration of renewable resources – particularly solar PV. This has had a major effect on the operation and pricing of electricity in the wholesale markets in these regions. This paper explores the impacts of recent changes and future projections of wholesale market prices on the value of energy efficiency. More specifically, it conducts a time-based analysis of wholesale market prices in conjunction with time-specific savings from efficiency measures to better understand how the energy value of efficiency is evolving as renewables reduce the marginal cost of generation with a specific focus on Arizona Public Service. It finds that while some measures are likely to become less cost-effective, there is still significant value in a diversified efficiency portfolio. As the resource mix evolves, it will be necessary to tailor energy efficiency portfolios accordingly. However, it does not find compelling evidence for major overhauls in efficiency portfolios based on current or near-future levels of renewable energy over the next decade.
Maintaining Strong Utility Energy	SWEEP	August 2018	https://www.sw energy.org/pubs /maintaining-str	Electric utilities in the Southwest (AZ, CO, NM, NV and UT) have significantly ramped up their energy efficiency programs in the past decade. Some utilities in the region are achieving first year energy savings of 1.5% of retail sales or greater. Some

Efficiency Programs Beyond 2018: Challenges and Prospects in the Southwest			ong-utility-ener gy-efficiency-pr ograms-beyond- 2018challenge s-and-prospects- in-the-s	factors call into question the ability to sustain this level of energy savings beyond 2018. This report discusses the innovative technologies and program strategies that utilities are implementing to maintain and increase energy savings levels.
Are Recent Forays into Electricity Market Restructuring a Threat to Energy Efficiency?	Jeff Schlegel, Ellen Zuckerman, Edward Burgess	2014	https://www.ace ee.org/files/proc eedings/2014/da ta/papers/6-113 5.pdf	This study reviews the performance and delivery of energy efficiency in states with retail competition versus those without retail competition. It also analyzes energy efficiency performance in states with and without energy savings requirements or targets, and with different administration models (e.g. administration by electric distribution companies versus non-utility administrators). The impacts of different forms, degrees, or specific provisions of retail competition are also reviewed. The study finds that states with retail competition appear more likely to perform well in terms of energy savings as a percent of retail sales. However, the higher savings levels achieved are more likely due to recent policies targeted at energy efficiency — particularly Energy Efficiency Resource Standards — and not retail competition per se. These states more often have decided to do more in the way of energy efficiency by setting more ambitious targets and subsequently enacting supporting policies such as decoupling, integrated resource planning requirements, and adequate levels of program funding. The ambitious goals set by these states are likely in part due to desire to reduce energy costs and reduce greenhouse gas emissions.
Smart-Tech Housing Developments In The Southwest: Grid-Integrated and Energy Efficient	SWEEP	Sept. 2019	https://www.sw energy.org/pubs /smart-tech-hou sing-developme nts-in-the-south west-report	This report explores eight housing developments in Arizona, Colorado and Utah that are demonstrating that all of the recent advancements in digital communications and smart devices can work seamlessly with the electric grid and provide multiple benefits not only to homeowners in these developments, but also to home builders, the environment and to the local utility and all of its customers.

Grid-Interactive Efficient Buildings: Providing Energy Demand Flexibility for Utilities in the Southwest	SWEEP	August 2019	https://www.sw energy.org/pubs /grid-interactive -efficient-buildi ngs-report	This report provides a summary of the residential and small commercial grid-interactive building demand-side management (DSM) programs at the major utilities in the Southwest, highlighting existing programs in the region that are using grid-interactive buildings (GEBs) as a resource to help with the integration of variable renewable generation and to provide other grid services that create value for customers. The report highlights programs in this region that are at the forefront of utilizing GEBs to provide value to the grid.
Time- Sensitive Valuation of Electricity Savings in the Southwest	SWEEP	August 2017	https://www.sw energy.org/data/ sites/1/media/do cuments/publica tions/documents /Valuation%20o f%20EE%20in %20Southwest %208-8-17%20 FINAL.pdf	This report examines the methodologies that electric utilities in the Southwest use to value the avoided costs (i.e., determine the benefits) of their energy efficiency and other demand-side management programs. The report also presents the actual value of energy savings for different types of programs implemented by the southwest utilities, and provides recommendations for future valuation of energy savings.
\$20 Billion Bonanza	SWEEP	October 2012	https://www.sw energy.org/prog rams/utility/20- billion-bonanza	This report finds that it is feasible to achieve a 21% reduction in electricity by the year 2020 from energy efficiency programs implemented 2010-2020. Reaching this target would save the equivalent of electricity used by 4.6 million typical households in the Southwest and require an investment of \$17 billion. The investment would be split between utilities and their customers and yield a resulting savings on energy purchases along with public health benefits of \$37 billion—or a net savings of \$20 billion.  This report also included an Arizona-specific analysis and was conducted to illustrate the potential for Arizona's utilities to achieve the Commission's Energy Efficiency Resource Standard.

Energy Efficiency Technology Briefs & Reports	SWEEP	Ongoing		SWEEP regularly produces technology briefs highlighting opportunities for the deployment of new energy efficiency technologies. For example see:  • Technology Brief: Deep Retrofit of Multifamily Housing (December 2019): http://swenergy.org/Data/Sites/1/media/aaa-documents-2019/buildings/tech-brief -deep-energy-retrofit-final-december-2019-fin.pdf  • Technology Brief: Air Sealing In Multifamily Buildings (June 2019): https://www.swenergy.org/pubs/technology-brief-air-sealing-multifamily-buildings  • Best Practices for Conducting Energy Code Compliance Studies (January 2019): https://www.swenergy.org/pubs/best-practices-for-conducting-energy-code-compliance-studies  • Is it Possible to Build a Zero-Energy Ready Home without Breaking the Bank? (June 2018): https://www.swenergy.org/data/sites/1/media/documents/publications/documents/1s%20it%20Possible%20to%20Buy%20a%20Zero-Energy%20Ready%20Home%20and%20Not%20Break%20the%20Bank NK_Formatted_2018.pdf  • Benefits of Heat Pumps for Homes in the Southwest (June 2018): https://www.swenergy.org/data/sites/1/media/documents/publications/documents/Heat%20pump%20study%20FINAL%202018-06-18.pdf  • Multifamily Energy Efficiency Retrofits: Barriers and Opportunities for Deep Energy Savings (December 2016): https://www.swenergy.org/data/sites/1/media/documents/publications/documents/SWEEP-Multifamily-Report.pdf
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## Just Transition/Securitization

Name	Author	Date	Source	High-Level Summary of Study Results
Managing the Coal Transition	Rocky Mountain	2018	https://rmi.org/w p-content/upload s/2018/09/RMI_	RMI summarizes the policy options available to regulators and asset owners based on interviews with 50 individual experts on coal sector economics and coal phaseout. Key observations include the following:

Institute (RMI)  Managing the C oal Capital Tran sition 2018.pdf	<ul> <li>"Today, 54% of coal-fired power generation is cash-flow negative after debt service, which is predicted to increase to 97% by 2030."<sup>4</sup></li> <li>"Retiring excess coal capacity in line with holding global warming to well below 2C° would cumulatively avoid 142.8 gigatons (Gt) of greenhouse gas emissions"<sup>5</sup></li> <li>Xcel Energy in Colorado can serve as an example of a utility seeking to transition their coal fleets to cleaner sources of energy. Xcel proposed an accelerated depreciation of decommissioning, which would cost \$200 million. Xcel proposed this delay by setting up a regulatory asset for collecting incremental expenses associated with early retirement.</li> <li>"Thus, while ratepayers would be paying more per unit of electricity than the market rate for solar, they would be paying less per unit of electricity than they are currently paying for power from the Comanche plants."<sup>6</sup></li> </ul>
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## Comments on the Commission's Integrated Resource Planning (IRP) Rules

Name	Author	Date	Source	High-Level Summary of Filing
Sierra Club Comments on IRP Rules	Louisa Eberle and Sandy Bahr, Sierra Club	5/19/2019	https://docket.images .azcc.gov/00001983 27.pdf	Sierra Club's preliminary recommendations on the IRP process in Arizona. These recommendations were expanded upon in subsequent responses from a coalition of stakeholders in response to Chairman Burns' and Staff's IRP rule proposals.
Stakeholder Comments in Response to Chairman Burns' IRP Proposal	Louisa Eberle and Sandy Bahr, Sierra Club	3/11/2020 (refiled) 12/20/2019	https://docket.images .azcc.gov/E0000052 60.pdf https://docket.images .azcc.gov/E0000042 06.pdf	This filing specifically responds to Chairman Burns' October 15, 2019, proposal for the IRP process in Arizona with recommendations and explanations for improvements to the IRP analysis, stakeholder engagement, and overall process.

Page 20, Ibid.
 Page 25, Ibid.
 Ibid, Page 65.

Stakeholder Comments in Response to Staff's IRP Proposal	Louisa Eberle and Sandy Bahr, Sierra Club	3/6/2020	http://docket.images. azcc.gov/E00000520 1.pdf	This filing specifically responds to Staff's February 19, 2020, proposal for the IRP process in Arizona with recommendations and explanations for improvements to the IRP analysis, stakeholder engagement, and overall process.
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## **Highlights of Energy Policies in the Intermountain West**

State	Clean Energy	Renewable Energy	Energy Efficiency
Colorado	Governor announced a goal of 100% carbon-free electricity by 2050. <sup>7</sup>	30% by 2020 (IOUs)	In 2017, the Colorado legislature passed House Bill 17-1227 extending Colorado's Energy Efficiency Resource Standard for 10 more years
New Mexico	100% zero-carbon energy by 2045 (IOUs)	80% by 2040 (IOUs)	In 2019, the New Mexico legislature passed House Bill 291 extending New Mexico's Energy Efficiency Resource Standard for 10 more years
Nevada	100% by 2050	50% by 2050	<ul> <li>In 2017, the Nevada legislature passed two bills on energy efficiency: Senate Bill 150 which, among other changes:</li> <li>Directs the Public Utilities Commission of Nevada (PUCN) to set energy savings goals for NV Energy;</li> <li>Directs utilities and the PUCN to account for non-energy benefits when energy efficiency programs are evaluated for cost-effectiveness;</li> <li>Allows the PUCN to approve energy efficiency programs that are not cost-effective as long as they are part of an overall energy efficiency plan that is cost effective.</li> </ul>

<sup>&</sup>lt;sup>2</sup> https://drive.google.com/file/d/0B7w3bkFgg92dMkpxY3VsNk5nVGZGOHJGRUV5VnJwQ1U4VWtF/view

## APPENDIX B

	WRITTEN COMMENTS FILED WITH THE ARE	ZONA CORPOR	ATION COMMISSION IN SUPPORT OF ARIZONA'S ENERGY RULES
#	Organization/Entity	Date	Hyperlink
1	Southwest Energy Efficiency Project, Western Grid Group and Western Resource Advocates	12/6/2018	https://docket.images.azcc.gov/0000194179.pdf?i=1610266130487
2	Interwest Energy Alliance	2/22/2019	https://docket.images.azcc.gov/0000196245.pdf?i=1610266130487
3	Bruce Plenk (Individual)	2/26/2019	https://docket.images.azcc.gov/0000196306.pdf?i=1610266130487
4	Barbara McGuire	3/4/2019	https://docket.images.azcc.gov/0000196500.pdf?i=1610266130487
5	Sierra Club	3/15/2019	https://docket.images.azcc.gov/0000196776.pdf?i=1610266130487
6	Sierra Club	3/19/2019	https://docket.images.azcc.gov/0000196776.pdf
7	Interwest Energy Alliance	3/22/2019	https://docket.images.azcc.gov/0000196902.pdf
8	Vote Solar	3/25/2019	https://docket.images.azcc.gov/0000196905.pdf?i=1610266130487
9	Ingersoll Rand	3/25/2019	https://docket.images.azcc.gov/0000196902.pdf?i=1610266130487
10	Tesla	3/25/2019	https://docket.images.azcc.gov/0000196909.pdf?i=1610266130487
11	Sierra Club	3/25/2019	https://docket.images.azcc.gov/0000196911.pdf?i=1610266130487
12	Western Resource Advocates and Western Grid Group	3/25/2019	https://docket.images.azcc.gov/0000196912.pdf?i=1610266130487
13	Interwest Energy Alliance	3/25/2019 3/25/2019	https://docket.images.azcc.gov/0000196916.pdf?i=1610266130487
15	Ingersoll Rand Arizona Competitive Power Alliance (AzCPA)	3/25/2019	https://docket.images.azcc.gov/0000196917.pdf?i=1610266130487 https://docket.images.azcc.gov/0000196889.pdf
16	Vote Solar	3/25/2019	https://docket.images.azcc.gov/0000196905.pdf
17	Energy Storage Association	3/25/2019	https://docket.images.azec.gov/0000196891.pdf
18	Tesla	3/25/2019	https://docket.images.azce.gov/0000196909.pdf
19	Western Resource Advocates and Western Grid Group	3/25/2019	https://docket.images.azec.gov/0000196912.pdf
20	Sunrun	3/25/2019	https://docket.images.azcc.gov/0000196917.pdf
21	Pascua Yaqui Tribe	3/25/2019	https://docket.images.azcc.gov/0000196939.pdf
22	Terry Finerock (Self)	4/17/2019	https://docket.images.azcc.gov/0000197367.pdf?i=1610266130487
23	Chispa Arizona	4/17/2019	https://docket.images.azcc.gov/0000197372.pdf?i=1610266130487
24	Karen Contos	5/10/2019	https://docket.images.azcc.gov/0000197892.pdf?i=1610266130487
25	Conservative Alliance For Solar Energy	5/13/2019	https://docket.images.azcc.gov/0000197886.pdf?i=1610266130487
26	David Wold (Self)	5/13/2019	https://docket.images.azcc.gov/0000197887.pdf?i=1610266130487
28	Kids Climate Action Network	5/13/2019	https://docket.images.azcc.gov/0000197947.pdf
29	Laura Kiholm (Self)	5/14/2019	https://docket.images.azcc.gov/0000197940.pdf?i=1610266130487
30	Russell Lowes (Self)	5/14/2019	https://docket.images.azcc.gov/0000197939.pdf?i=1610266130487
31	Patsy Stewart (Self)	5/15/2019	https://docket.images.azcc.gov/0000197973.pdf?i=1610266130487
32	Laurie Lautzenheiser (Self)	5/15/2019	https://docket.images.azcc.gov/0000197974.pdf?i=1610266130487
33	Henry M. Goldberg and John M. Cordes (Self)	5/15/2019	https://docket.images.azcc.gov/0000197986.pdf?i=1610266130487
34	Western Sustainable Agriculture Working Group	5/16/2019	https://docket.images.azcc.gov/0000197996.pdf?i=1610266130487
35	Conservatives for Responsible Stewardship	5/16/2019	https://docker.images.azcc.gov/0000197997.pdf?i=1610266130487
36	Arizona Interfaith Power and Light	5/17/2019	https://docket.images.azcc.gov/0000198006.pdf?i=1610266130487
37	Arizona Public Health Association	5/17/2019	https://docket.images.azcc.gov/0000198010.pdf?i=1610266130487
38	Physicians for Social Responsibility, Arizona Chapter	5/17/2019	https://docket.images.azcc.gov/0000198009.pdf?i=1610266130487
39	Ceres BICEP Network	5/17/2019	https://docket.images.azcc.gov/0000198009.pdf?i=1610266130487
40	Western Way	5/17/2019	https://docket.images.azcc.gov/E000000808.pdf
41	Ceres BICEP Network	5/17/2019	https://docket.images.azcc.gov/0000198008.pdf
42	Alliance for Industrial Efficiency	5/17/2019	https://docket.images.azcc.gov/0000198061.pdf
43	Black Mesa Water Coalition, Tó Nizhoní Ání, Diné CARE, and Former Navajo Nation Council Delegate Big Mountain	5/17/2019	https://docket.images.azcc.gov/0000198065.pdf
44	National Housing Trust	5/17/2019	https://docket.images.azcc.gov/0000198066.pdf
45	American Council for an Energy-Efficient Economy	5/17/2019	https://docket.images.azcc.gov/0000198007.pdf
46	Sharon Day (Self)	5/17/2019	https://docket.images.azcc.gov/0000198022.pdf?i=1610266130487
100	Laura J. Jakimovich (Self)	5/17/2019	https://docket.images.azcc.gov/0000198027.pdf?i=1610266130487
48	Pierre N. Tariot, MD (Self)	5/17/2019	https://docket.images.azcc.gov/0000198028.pdf?i=1610266130487 https://docket.images.azcc.gov/0000198029.pdf?i=1610266130487
50	35 + Individual Ratepayers 180 + Individual Ratepayers	5/17/2019	https://docket.images.azcc.gov/0000198029.pdf?i=1610266130487
51	Arizona Interfaith Power & Light	5/17/2019	https://docket.images.azcc.gov/0000198020.pdf?i=1610266130487
52	Chispa Arizona	5/17/2019	https://docket.images.azec.gov/0000198031.pdf?i=1610266130487
53	Silverino Antive (Self)	5/17/2019	https://docket.images.azec.gov/0000198032.pdf?i=1610266130487
54	Cecilia Laguna (Self)	5/17/2019	https://docket.images.azec.gov/0000198033.pdf?i=1610266130487
55	Patricia Argueta (Self)	5/17/2019	https://docket.images.azec.gov/0000198034.pdf?i=1610266130487
56	Unknown (Self)	5/17/2019	https://docket.images.azcc.gov/0000198035.pdf?i=1610266130487
57	Gissele Campas (Self)	5/17/2019	https://docket.images.azcc.gov/0000198036.pdf?i=1610266130487
58	Wendy Gesund (Self)	5/17/2019	https://docket.images.azcc.gov/0000198021.pdf?i=1610266130487
59	Lenny E. (Self)	5/17/2019	https://docket.images.azcc.gov/0000198037.pdf?i=1610266130487
60	Terry Ayez (Self)	5/17/2019	https://docket.images.azcc.gov/0000198038.pdf?i=1610266130487
61	Nabel P. (Self)	5/17/2019	https://docket.images.azcc.gov/0000198039.pdf?i=1610266130487
62	Daria Santos (Self)	5/17/2019	https://docket.images.azcc.gov/0000198023.pdf?i=1610266130487
63	Unknown (Self)	5/17/2019	https://docket.images.azcc.gov/0000198040.pdf?i=1610266130487
64	Unknown (Self)	5/17/2019	https://docket.images.azcc.gov/0000198041.pdf?i=1610266130487
65	Brad Voracek (Self)	5/17/2019	https://docket.images.azce.gov/0000198042.pdf?i=1610266130487
66	Patricia Argueta (Self)	5/17/2019	https://docket.images.azcc.gov/0000198024.pdf?i=1610266130487
67	Susan Ontivero (Self)	5/17/2019	https://docket.images.azcc.gov/0000198045.pdf?i=1610266130487
68	Blanca Abarca (Self)	5/17/2019	https://docket.images.azce.gov/0000198046.pdf?i=1610266130487
69	Beatriz Beltran (Self)	5/17/2019	https://docket.images.azcc.gov/0000198045.pdf?i=1610266130487
175.00	Constitution and Consti	6/17/2010	https://docket.images.azcc.gov/0000198046.pdf?i=1610266130487
70	M. Trinidad Ortiz(Self)	5/17/2019	BH 1857 GOCK CHIHARES AZCC. 2007/00/01/2004/0. Pdf. 11 10/10/2001/3046/1
100	M. Trinidad Ortiz(Self)  Laurel Hardin(Self)	5/17/2019	https://docket.images.azec.gov/0000198025.pdf?i=1610266130487
70		+	

	WRITTEN COMMENTS FILED WITH THE ARE	ZONA CORPORA	ATION COMMISSION IN SUPPORT OF ARIZONA'S ENERGY RULES
#	Organization/Entity	Date	Hyperlink
74	Mary Alisa Lawing (Self)	5/17/2019	https://docket.images.azec.gov/0000198052.pdf?i=1610266130487
	Joan Welty (Self)	5/17/2019	https://docket.images.azcc.gov/0000198053.pdf?i=1610266130487
6	Rev. Doug Bland (Self)	5/17/2019	https://docket.images.azcc.gov/0000198054.pdf?i=1610266130487
7	Barbara McGuire (Self)	5/17/2019	https://docket.images.azce.gov/0000198055.pdf?i=1610266130487
8	Char Hoffman (Self)	5/17/2019	https://docket.images.azcc.gov/0000198056.pdf?i=1610266130487
9	Katherine Roxlo (Self)	5/17/2019	https://docket.images.azcc.gov/0000198057.pdf?i=1610266130487
0	Nona Siegel (Self)	5/17/2019	https://docket.images.azcc.gov/0000198058.pdf?i=1610266130487
1	Sandra Kenny (Self)	5/17/2019	https://docket.images.azcc.gov/0000198059.pdf?i=1610266130487
2	Alliance for Industrial Efficiency	5/17/2019	https://docket.images.azcc.gov/0000198061.pdf?i=1610266130487
3		5/17/2019	
4	70+ Ratepayers		https://docket.images.azcc.gov/0000198063.pdf?i=1610266130487
_	Valarie A. Bryant	5/17/2019	https://docket.images.azcc.gov/0000198062.pdf?i=1610266130487
5	Vote Solar	5/17/2019	https://docket.images.azcc.gov/0000198064.pdf?i=1610266130487
6	Black Mesa Water Coalition, To Nizhoni Ani, Diné CARE and Former Navajo Nation Council Delegate Big Mountain	5/17/2019	https://docket.images.azec.gov/0000198065.pdf?i=1610266130487
7	National Housing Trust	5/17/2019	https://docket.images.azcc.gov/0000198066.pdf?i=1610266130487
8	Patricia M. Hoyt	5/17/2019	https://docket.images.azcc.gov/0000198074.pdf?i=1610266130487
9	Western Grid Group, Western Resource Advocates	5/17/2019	https://docket.images.azcc.gov/0000198076.pdf?i=1610266130487
)	Crosier Village Ministries	5/17/2019	https://docket.images.azcc.gov/0000198075.pdf?i=1610266130487
i j	Hundreds of Individual Ratepayers	5/17/2019	https://docket.images.azcc.gov/0000198079.pdf?i=1610266130487
2	Arizona Technology Council	5/17/2019	https://docket.images.azcc.gov/0000198080.pdf?i=1610266130487
3	Yavapai County Climate Change Coalition	5/17/2019	https://docket.images.azcc.gov/0000198086.pdf?i=1610266130487
4	Primavera Foundation	5/17/2019	https://docket.images.azcc.gov/0000198095.pdf?i=1610266130487
5	Consumer Reports	5/17/2019	https://docket.images.azcc.gov/0000198096.pdf?j=1610266130487
5	Consumer Federation of America	5/17/2019	https://docket.images.azcc.gov/0000198097.pdf?i=1610266130487
,	James Moule (Self)	5/17/2019	https://docket.images.azcc.gov/E000000825.pdf?i=1610266130487
	ProgressNow Arizona	5/17/2019	
-	ProgressNow Arizona Sierra Club	5/17/2019	https://docket.images.azcc.gov/0000198098.pdf?i=1610266130487
) (	Part of the control o	-	https://docket.images.azcc.gov/0000198144.pdf?i=1610266130487
00	Environment Arizona	5/17/2019	https://docket.images.azcc.gov/0000198147,pdf?i=1610266130487
)1	Wildfire	5/17/2019	https://docket.images.azcc.gov/0000198146.pdf?i=1610266130487
)2	Wildfire	5/21/2019	https://docket.images.azcc.gov/0000198146.pdf
)3	Tucson Urban League, Inc.	05/21/2019	https://docket.images.azcc.gov/0000198160.pdf?i=1610266130487
)4	Center for Economic Integrity	5/21/2019	https://docket.images.azcc.gov/0000198161.pdf?i=1610266130487
)5	Arizona Technology Council	5/21/2019	https://docket.images.azcc.gov/0000198168.pdf?i=1610266130487
06	Arizona PIRG Education Fund	5/21/2019	https://docket.images.azcc.gov/0000198182.pdf?i=1610266130487
07	Richard C. Katz (Self)	5/22/2019	https://docket.images.azcc.gov/E000000837.pdf?i=1610266130487
08	Tucson 2030 District	5/22/2019	https://docket.images.azcc.gov/0000198181.pdf?i=1610266130487
09	American Council on Consumer Awareness, Inc.	5/22/2019	https://docket.images.azcc.gov/0000198184.pdf?i=1610266130487
10	James Moule (Self)	5/23/2019	https://docket.images.azcc.gov/E000000856.pdf?i=1610266130487
11	Frederick Wilburn (Self)	5/24/2019	https://docket.images.azcc.gov/0000198236.pdf?i=1610266130487
	Patricia Butler (Self)	5/24/2019	https://docket.images.azcc.gov/0000198237.pdf?i=1610266130487
13	Arizona Technology Council	05/28/2019	https://docket.images.azcc.gov/0000198265.pdf?i=1610266130487
14	Barbara Coon (Self)	05/28/2019	https://docket.images.azcc.gov/0000198273.pdf?i=1610266130487
15	Arizona Faith Network	05/29/2019	
_		-	https://docket.images.azcc.gov/0000198284.pdf?i=1610266130487
	Chressie Jo Sylvester (Self)	05/29/2019	https://docket.images.azcc.gov/0000198283.pdf?i=1610266130487
17	Korey Hjelmeir (Self)	05/29/2019	https://docket.images.azcc.gov/0000198282.pdf?i=1610266130487
18	Shelly Gordon-Gray (Self)	05/29/2019	https://docket.images.azcc.gov/0000198281.pdf?i=1610266130487
19	William C. Elliott (Self)	05/29/2019	https://docket.images.azcc.gov/0000198280.pdf?i=1610266130487
20	Energy Storage Association	05/29/2019	https://docket.images.azcc.gov/0000198301.pdf?i=1610266130487
21	40+ Individual Ratepayers	05/29/2019	https://docket.images.azcc.gov/0000198304.pdf?i=1610266130487
22	Sandy Whitley	05/29/2019	https://docket.images.azcc.gov/0000198303.pdf?i=1610266130487
23	James Moule (Self)	05/29/2019	https://docket.images.azcc.gov/0000198305.pdf?i=1610266130487
24	100+ Individual Ratepayers	05/29/2019	https://docket.images.azcc.gov/0000198306.pdf?i=1610266130487
25	Interwest Energy Alliance	05/29/2019	https://docket.images.azcc.gov/0000198307.pdf?i=1610266130487
26	Western Resource Advocates, Western Grid Group, Vote Solar, and the Sierra Club	05/29/2019	https://docket.images.azcc.gov/0000198308.pdf?i=1610266130487
27	Sierra Club	05/29/2019	https://docket.images.azcc.gov/0000198327.pdf?i=1610266130487
28	Caroline Davies (Self)	05/30/2019	https://docket.images.azcc.gov/0000198349.pdf?i=1610266130487
29	Sunrun	05/30/2019	https://docket.images.azcc.gov/0000198335.pdf?i=1610266130487
30.	Nona Siegel (Self)	05/31/2019	https://docket.images.azec.gov/E000001144.pdf?i=1610266130487
31	Sally Rings (Self)	06/04/2019	https://docket.images.azcc.gov/E000001194.pdf?i=1610266130487
32	Tajinder Uppal (Self)	06/06/2019	https://docket.images.azcc.gov/E000001247.pdf?i=1610266130487
33	Frederick Wilburn (Self)	06/07/2019	https://docket.images.azec.gov/0000198483.pdf?i=1610266130487
4	Pascua Yaqui Tribe	06/16/2019	
-		THE STATE OF THE S	https://docket.images.azcc.gov/0000198664.pdf?i=1610266130487
35	First Solar	06/25/2019	https://docket.images.azcc.gov/0000198769.pdf?i=1610266130487
36	Arizona PIRG Education Fund	07/08/2019	https://docket.images.azcc.gov/E000001593.pdf?i=1610266130487
37	Jeanne Devine (Self)	7/10/2019	https://docket.images.azcc.gov/0000198966.pdf?i=1610266130487
38	Bruce Plenk (Self)	7/11/2019	https://docket.images.azcc.gov/E000001757.pdP?i=1610266130487
39	Varun Shourie (Self)	7/11/2019	https://docket.images.azcc.gov/0000199013.pdf?i=1610266130487
40	Tajinder Uppal (Self)	7/11/2019	https://docket.images.azcc.gov/0000199012.pdf?i=1610266130487
41	Hundreds of Individual Ratepayers	7/11/2019	https://docket.images.azcc.gov/0000199010.pdf?i=1610266130487
42	Interwest Energy Alliance	7/12/2019	https://docket.images.azcc.gov/E000001800.pdf?i=1610266130487
1.00		7/12/2019	https://docket.images.azcc.gov/E000001793.pdf?i=1610266130487
	John and Linda Cooke (Self)	111212019	
43	John and Linda Cooke (Self) Carol Blackman (Self)	7/12/2019	https://docket.images.azcc.gov/E000001792.pdf?i=1610266130487

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#	Organization/Entity	Date Date	TION COMMISSION IN SUPPORT OF ARIZONA'S ENERGY RULES  Hyperlink
146	Robert Krenn (Self)	7/12/2019	https://docket.images.azcc.gov/E000001789.pdf?i=1610266130487
147	Marty Light (Self)	7/12/2019	https://docket.images.azcc.gov/E000001788.pdf?i=1610266130487
148	Western Resource Advocates	7/12/2019	https://docket.images.azcc.gov/E000001787.pdf?i=1610266130487
149	Arizona Interfaith Power & Light	7/12/2019	https://docket.images.azcc.gov/E000001785.pdf?i=1610266130487
150	Energy Storage Association	7/12/2019	https://docket.images.azcc.gov/0000199017.pdf?i=1610266130487
151	Bruce Plenk (Self)	7/12/2019	https://docket.images.azcc.gov/0000199019.pdf?i=1610266130487
152	James Stein (Self)	7/16/2019	https://docket.images.azcc.gov/E000001879.pdf?i=1610266130487
153	7 Individual Ratepayers	7/16/2019	https://docket.images.azcc.gov/E000001878.pdf?i=1610266130487
154	First Solar	7/19/2019	https://docket.images.azcc.gov/E000002015.pdf?i=1610266130487
155	Danielle Cowan (Self)	7/19/2019	https://docket.images.azcc.gov/0000199114.pdf?i=1610266130487
156	Sherri Gerlach (Self)	7/19/2019	https://docket.images.azcc.gov/0000199111.pdf?i=1610266130487
157	Nancy Peterson (Self)	7/19/2019	https://docket.images.azcc.gov/0000199112.pdf?i=1610266130487
158	Betsy Tait (Self)	7/19/2019	https://docket.images.azcc.gov/0000199113.pdf?i=1610266130487
159	Dean Pedrotti	7/19/2019	https://docket.images.azcc.gov/0000199118.pdf?i=1610266130487
160	Char Hoffman (Self)	7/19/2019	https://docket.images.azcc.gov/0000199121.pdf?i=1610266130487
161	Patricia Always (Self)	07/19/2019	https://docket.images.azce.gov/0000199122.pdf?i=1610266130487
163	Earth Justice Ministry of UUCP Shea Stanfield (Self)	7/25/2019 7/25/2019	https://docket.images.azcc.gov/E000002083.pdf?i=1610266130487 https://docket.images.azcc.gov/E000002072.pdf?i=1610266130487
164	David A. Wolf (Self)	7/26/2019	https://docket.images.azec.gov/E000002072.pdr.j=1010200130487
165	Conservative Alliance for Solar Energy	7/26/2019	https://docket.images.azec.gov/0000199203.pdf?i=1610266130487
166	Regena G. Bacon, Frederick C. Davis Jr., David A. Wolf and D. Richard	7/26/2019	https://docket.images.azcc.gov/0000199204.pdf?i=1610266130487
1556	Toth	UniFLX 917/52/2	\$250.000 (00m/ss.200 (00m/ss.200 (00m/ss.200 (00m/ss.200 (00m/ss.200 40m/ss.200 (00m/ss.200 (00m/ss.20
167	Richard Toth (Self)	7/26/2019	https://docket.images.azcc.gov/E000002123.pdf?i=1610266130487
168	Alice M. Miller, Charles Miller, Bill and Susan Nee, Charles E. Conn	7/29/2019	https://docket.images.azcc.gov/0000199239.pdf?i=1610266130487
169	11 Individual Ratepayers	7/29/2019	https://docket.images.azcc.gov/0000199240.pdf?i=1610266130487
170	3 Individual Ratepayers	7/30/2019	https://docket.images.azcc.gov/E000002151.pdf?i=1610266130487
171	Ron and Carol Vandervort (Self)	7/30/2019	https://docket.images.azcc.gov/E000002143.pdf?i=1610266130487
172	25 + Joint Stakeholders	7/30/2019	https://docket.images.azcc.gov/E000002141.pdf?i=1610266130487
173	American Express	7/30/2019	https://docket.images.azcc.gov/0000199245.pdf?i=1610266130487
174	3 Individual Ratepayers	7/31/2019	https://docket.images.azcc.gov/E000002151.pdf?i=1610266130487
175	Mary Stout (Self)	7/31/2019	https://docket.images.azcc.gov/E000002181.pdf?i=1610266130487
176	Western Grid Group	08/02/2019	https://docket.images.azcc.gov/E000002251.pdf?i=1610266130487
177	John and Charlotte Silvester (Self)	08/06/2019	https://docket.images.azcc.gov/E000002282.pdf?i=1610266130487
178	8 Individual Ratepayers	08/07/2019	https://docket.images.azcc.gov/E000002291.pdf?i=1610266130487
179 180	Janna Papa Beckler (Self) James Corbin (Self)	08/07/2019 08/07/2019	https://docket.images.azcc.gov/0000199335.pdf?i=1610266130487 https://docket.images.azcc.gov/0000199370.pdf?i=1610266130487
181	Henry M. Goldberg and John M. Cordes	08/08/2019	https://docket.images.azcc.gov/E00002316.pdf?i=1610266130487
182	Henry Goldberg (Self)	08/08/2019	https://docket.images.azcc.gov/E000002313.pdf?i=1610266130487
183	Sandy Whitley (Self)	8/12/2019	https://docket.images.azcc.gov/E000002363.pdf?i=1610266130487
184	Karen Schedler (Self)	8/14/2019	https://docket.images.azcc.gov/E000002394.pdf?i=1610266130487
185	Sierra Club Study Conducted by Strategen	9/25/2019	https://docket.images.azcc.gov/E000002985.pdf
186	14 Individual Ratepayers	10/17/2019	https://docket.images.azcc.gov/E000003319.pdf?i=1610266130487
187	20 Individual Ratepayers	10/21/2019	https://docket.images.azcc.gov/E000003378.pdf?i=1610266130487
188	41 Individual Ratepayers	10/23/2019	https://docket.images.azcc.gov/E000003414.pdf?i=1610266130487
189	Pearl Street Incorporated	10/25/2019	https://docket.images.azcc.gov/E000003445.pdf?i=1610266130487
190	Brad Johns (Self)	10/25/2019	https://docket.images.azcc.gov/0000199993.pdf?i=1610266130487
191	12 Individual Ratepayers	10/25/2019	https://docket.images.azec.gov/0000200017.pdf?i=1610266130487
192	21 Individual Ratepayers	10/30/2019	https://docket.images.azcc.gov/E000003497.pdf?i=1610266130487
193	U.S. Energy Recovery	11/05/2019	https://docket.images.azcc.gov/E000003566.pdf?i=1610266130487
194	Saline Calhoun (Self)	11/05/2019	https://docket.images.azcc.gov/0000200087.pdf?i=1610266130487
195	20 Individual Ratepayers	11/13/2019	https://docket.images.azcc.gov/E000003671.pdf?i=1610266130487
196	Teri Raml (Self)	11/18/2019	https://docket.images.azcc.gov/0000200187.pdf?i=1610266130487
197	Pat McDonough (Self)	11/18/2019	https://docket.images.azcc.gov/0000200188.pdf?i=1610266130487
198	James Ashcroft (Self)	11/18/2019	https://docket.images.azcc.gov/0000200189.pdf?i=1610266130487
199	Sonny Rock (Self)	12/04/2019	https://docket.images.azcc.gov/E00003915.pdf?i=1610266130487
200	The Sonoran Schools  Generalt Konnelauski, CEO, Stoff Matters	12/10/2019	https://docket.images.azcc.gov/0000200450.pdf
201	Garrett Kowalewski, CEO - Staff Matters  Dr. Vincent M. Pellorgina - Sanaran School District	12/10/2019	https://docket.images.azcc.gov/E000004051.pdf?i=1610266130487 https://docket.images.azcc.gov/E000004116.pdf?i=1610266130487
202	Dr. Vincent M. Pellegrino - Sonoran School District Robert Rossi, The Crosier Fathers and Brothers	12/16/2019	https://docket.images.azcc.gov/E000004116.pdf?i=1610266130487 https://docket.images.azcc.gov/E000004120.pdf?i=1610266130487
203	The Western Way	12/17/2019	https://docket.images.azcc.gov/E000004120.pdf?i=1610266130487 https://docket.images.azcc.gov/E000004155.pdf?i=1610266130487
205	The Western Way	12/19/2019	https://docket.images.azcc.gov/E000004166.pdf
206	Southwest Energy Efficiency Project, Western Grid Group, Western	12/20/2019	https://docket.images.azec.gov/E000004760.pdf
1777-158 43	Resource Advocates, Vote Solar. Solar United Neighbors		
207	Arizona Technology Council	12/20/2019	https://docket.images.azcc.gov/0000200451.pdf
208	Arizona Technology Council	12/20/2019	https://docket.images.azcc.gov/0000200451.pdf?i=1610266130487
209	Biosphere Systems International Foundation	12/20/2019	https://docket.images.azec.gov/0000200452.pdf?i=1610266130487
210	4 Individual Ratepayers	01/06/2020	http://edocket.azcc.gov/search/docket-search/item-detail/21658
211	Ball Corporation, ON Semiconductor, Recleim, Schneider Electric, and	1/21/2020	https://docket.images.azcc.gov/0000200676.pdf?i=1610266130487
212	Tucson 2030 District	100410000	EXTENSION AND ADDRESS OF THE PROPERTY OF THE P
212	Thomas Lammie (Self)	1/24/2020	https://docket.images.azcc.gov/E000004571.pdf?i=1610266130487
213	Conservatives for Responsible Stewardship	2/20/2020	https://docket.images.azcc.gov/E000004985.pdf
214	Marcella Lambert (Self)	2/20/2020	https://docket.images.azcc.gov/E000004986.pdf?i=1610266130487
215	Conservatives For Responsible Stewardship	2/20/2020	https://docket.images.azcc.gov/E000004985.pdf?i=1610266130487
216	Sandy Whitley (Self)	2/26/2020	https://docket.images.azcc.gov/0000201041.pdf?i=1610266130487

G	WRITTEN COMMENTS EU EN WITH THE ARIZ	ONA CORRODA	TION COMMISSION IN SUBBORT OF ARIZONA'S ENERGY BUT ES
#	Organization/Entity	Date	TION COMMISSION IN SUPPORT OF ARIZONA'S ENERGY RULES  Hyperlink
217	Char Hoffman (Self)	2/26/2020	https://docket.images.azcc.gov/0000201042.pdf?i=1610266130487
218	Pat McDonough (Self)	2/26/2020	https://docket.images.azcc.gov/0000201042.pdr1=1610266130487
219	Myra Ronan (Self)	2/26/2020	https://docket.images.azec.gov/0000201044.pdf?i=1610266130487
220	Bea Ronan (Self)	2/26/2020	https://docket.images.azec.gov/0000201044.pdr1=1610266130487
221	the state of the s	2/26/2020	
	Dean Pedrotti (Self)		https://docket.images.azcc.gov/0000201044.pdf?i=1610266130487
222	Western Grid Group, Western Resource Advocates, Sierra Club	03/06/2020	https://docket.images.azcc.gov/E000005201.pdf
223	Sierra Club, Southwest Energy Efficiency Project, Western Resource Advocates, Vote Solar, Solar United Neighbors	03/06/2020	https://docket.images.azcc.gov/E000005201.pdf?i=1610266130487
224	Our Lady of the Angels Church at the Franciscan Renewal Center	03/06/2020	https://docket.images.azcc.gov/0000201111.pdf?i=1610266130487
225	Abril Valenzuela and Virginia Ticay	03/06/2020	
-		03/06/2020	https://docket.images.azcc.gov/0000201112.pdf?i=1610266130487
226	Monica Dorcey (Self)	- Contract C	https://docket.images.azcc.gov/0000201113.pdf?i=1610266130487
227	5 sixteen year-old Brophy College Preparatory Students	03/06/2020	https://docket.images.azcc.gov/0000201114.pdf?i=1610266130487
228	Patrick Grady, Prescott Faith Network for Earth Care	03/06/2020	https://docket.images.azcc.gov/0000201115.pdf?i=1610266130487
229	Members of The Fountains, a United Methodist Church	03/06/2020	https://docket.images.azcc.gov/0000201116.pdf?i=1610266130487
230	Arizona's faith-based leaders	03/06/2020	https://docket.images.azcc.gov/0000201117.pdf?i=1610266130487
231	Earth Justice Ministry of Unitarian Universalist Congregation of Phoenix	03/09/2020	https://docket.images.azcc.gov/E000005219.pdf?i=1610266130487
232	5,000+ Individual Ratepayers	03/09/2020	https://docket.images.azcc.gov/E000005217.pdf?i=1610266130487
233	C.H. Huckleberry, Pima County	03/09/2020	https://docket.images.azcc.gov/E000005215.pdf?i=1610266130487
234	Southwest Energy Efficiency Project	3/11/2020	https://docket.images.azcc.gov/E000005258.pdf
235	Ceres	3/11/2020	https://docket.images.azcc.gov/E000005256.pdf
236	Ceres	3/11/2020	https://docket.images.azcc.gov/E000005264.pdf?i=1610266130487
237	Barbara Johnson (Self)	3/11/2020	https://docket.images.azcc.gov/0000201130.pdf?i=1610266130487
238	Nazilda Joames (Self)	3/11/2020	https://docket.images.azcc.gov/0000201131.pdf?i=1610266130487
239	Carol Vanderoot (Self)	3/11/2020	https://docket.images.azcc.gov/0000201132.pdf?i=1610266130487
240	Brenda Bobinsky (Self)	3/11/2020	https://docket.images.azcc.gov/0000201133.pdf?i=1610266130487
241	Jarita Frie (Self)	3/11/2020	https://docket.images.azcc.gov/0000201134.pdf?i=1610266130487
242	William Rose (Self)	3/11/2020	https://docket.images.azcc.gov/0000201135.pdf?i=1610266130487
243	Jack Connoly (Self)	3/11/2020	https://docket.images.azcc.gov/000201136.pdf?i=1610266130487
244	Jean Kiser (Self)	3/11/2020	
-	Dolores Tomlinson (Self)		https://docket.images.azcc.gov/0000201137.pdf?i=1610266130487
245	The second of th	3/11/2020	https://docket.images.azcc.gov/0000201139.pdf?i=1610266130487
246	Gary Kisen (Self)	3/11/2020	https://docket.images.azcc.gov/0000201140.pdf?i=1610266130487
247	Michael Broden Ruster (Self)	3/11/2020	https://docket.images.azcc.gov/0000201151.pdf?i=1610266130487
248	Steven L. Smith (Self)	3/11/2020	https://docket.images.azcc.gov/0000201152.pdf?i=1610266130487
249	Janet Geagas (Self)	3/11/2020	https://docket.images.azcc.gov/0000201153.pdf?i=1610266130487
250	Mikaela Maneely (Self)	3/11/2020	https://docket.images.azcc.gov/0000201154.pdf?i=1610266130487
251	Nancie Kilbourne (Self)	3/11/2020	https://docket.images.azcc.gov/0000201156.pdf?i=1610266130487
252	John H. Stryker (Self)	3/11/2020	https://docket.images.azcc.gov/0000201157.pdf?i=1610266130487
253	Victoria Cook (Self)	3/11/2020	https://docket.images.azcc.gov/0000201158.pdf?i=1610266130487
254	Patricia Moore (Self)	3/11/2020	https://docket.images.azcc.gov/0000201142.pdf?i=1610266130487
255	Janet L. Eslick (Self)	3/11/2020	https://docket.images.azcc.gov/0000201143.pdf?i=1610266130487
256	Ruiz M. Lucas (Self)	3/11/2020	https://docket.images.azcc.gov/0000201144.pdf?i=1610266130487
257	Patrine Gray (Self)	3/11/2020	https://docket.images.azcc.gov/0000201145.pdf?i=1610266130487
258	Margruth Ideleuc (Self)	3/11/2020	https://docket.images.azcc.gov/0000201146.pdf?i=1610266130487
259	Francine R. Bennal (Self)	3/11/2020	https://docket.images.azcc.gov/0000201147.pdf?i=1610266130487
260	Claire F. Evans (Self)	3/11/2020	https://docket.images.azcc.gov/0000201148.pdf?i=1610266130487
261	Peggy Harke (Self)	3/11/2020	https://docket.images.azcc.gov/0000201149.pdf?i=1610266130487
262	MaryAnn Millinen-Stryker (Self)	3/11/2020	https://docket.images.azcc.gov/0000201159.pdf?i=1610266130487
263	Rudy R. Havarro (Self)	3/11/2020	
			https://docket.images.azcc.gov/0000201150.pdf?i=1610266130487
264	Mary Ann Graffognîno (Self)	3/11/2020	https://docket.images.azcc.gov/0000201160.pdf?i=1610266130487
265	Caul A. Hubut (Self)	3/11/2020	https://docket.images.azcc.gov/0000201161.pdf?i=1610266130487
266	Yvonne Gerder (Self)	3/11/2020	https://docket.images.azcc.gov/0000201162.pdf?i=1610266130487
267	Vilma O. Freske (Self)	3/11/2020	https://docket.images.azcc.gov/0000201163.pdf?i=1610266130487
268	Kettly EssLinger (Self)	3/11/2020	https://docket.images.azcc.gov/0000201164.pdf?i=1610266130487
269	James M. Mick (Self)	3/11/2020	https://docket.images.azcc.gov/0000201165.pdf?i=1610266130487
270	Joseph Mareck (Self)	3/11/2020	https://docket.images.azcc.gov/0000201166.pdf?i=1610266130487
271	Marin C. Buenoun (Self)	3/11/2020	https://docker.images.azcc.gov/0000201167.pdf?i=1610266130487
272	Francine Mick (Self)	3/11/2020	https://docket.fmages:azcc.gov/0000201168.pdf?i=1610266130487
273	Evelyn Romaine (Self)	3/11/2020	https://docket.images.azcc.gov/0000201169.pdf?i=1610266130487
274	Vera Williams (Self)	3/11/2020	https://docket.images.azcc.gov/0000201170.pdf?i=1610266130487
275	Linda Wood (Self)	3/11/2020	http://docket.images.azcc.gov/0000201171.pdf?i=1610266130487
276	James Romaine (Self)	3/11/2020	https://docket.images.azcc.gov/0000201172.pdf?i=1610266130487
277	Joan Carrillo (Self)	3/11/2020	https://docket.images.azcc.gov/0000201173.pdf?i=1610266130487
278	Alex Carrillo (Self)	3/11/2020	http://docket.images.azcc.gov/0000201174.pdf?i=1610266130487
279	Teresa A. Stafford (Self)	3/11/2020	http://docket.images.azcc.gov/00201175.pdf?i=1610266130487
280	Maria Robinson (Self)	3/11/2020	https://docket.images.azcc.gov/0000201176.pdf?i=1610266130487
281	Mary Mary Mary Control of Control	3/11/2020	
-	Gladys Miller (Self)		https://docket.images.azcc.gov/0000201177.pdf?i=1610266130487
282	Beth Hunsdaw (Self)	3/11/2020	https://docket.images.azcc.gov/0000201178.pdf?i=1610266130487
283	Disice L. Humphrey (Self)	3/11/2020	https://docket.images.azcc.gov/0000201179.pdf?i=1610266130487
284	Ramune Sarup (Self)	3/11/2020	https://docket.images:azcc.gov/0000201175.pdf?i=1610266130487
285	M. Hoffman (Self)	3/11/2020	https://docket.images.azcc.gov/0000201182.pdf?i=1610266130487
286	Joanne Allen (Self)	3/11/2020	https://docket.images.azcc.gov/0000201181.pdf?i=1610266130487
287	Teresa A. Stafford (Self)	3/11/2020	https://docket.images.azcc.gov/0000201175.pdf?i=1610266130487
288	Joint Stakeholders Energy Rules Proposal and presentation	3/12/2020	https://docket.images.azcc.gov/E000005275.pdf AND https://docket.images.azcc.gov/E000005346.pdf
289	Western Resource Advocates and Clean Air Task Force	3/12/2020	https://docket.images.azcc.gov/E000005265.pdf

	WRITTEN COMMENTS FILED WITH THE ARIZ		ATION COMMISSION IN SUPPORT OF ARIZONA'S ENERGY RULES
E:	Organization/Entity	Date	Hyperlink
90	32 + Joint Stakeholders	3/12/2020	http://docket.images.azec.gov/E000005275.pdf?i=1610266130487
91	The Nature Conservancy in Arizona	3/18/2020	https://docket.images:azcc.gov/E000005360.pdf?j=1610266130487
92	32+ Joint Stakeholders	3/18/2020	https://docket.images.azcc.gov/E000005346.pdf?i=1610266130487
93	Ceres	3/19/2020	https://docket.images.azcc.gov/E000006575.pdf
94	Southwest Energy Efficiency Project, Sierra Club, Western Resource Advocates, Chispa Arizona, and Vote Solar	3/19/2020	https://docket.images.azcc.gov/E000005407.pdf?i=1610266130487
95	Ceres	3/19/2020	https://docket.images.azcc.gov/E000005408.pdf?i=1610266130487
96	Western Resource Advocates, Southwest Energy Efficiency Project, Vote Solar, Sierra Club, and Chispa Arizona	3/20/2020	https://docket.images.azcc.gov/E000005450.pdf
97	Western Resource Advocates, Western Grid Group, Southwest Energy Efficiency Project, Vote Solar, and Chispa Arizona	3/20/2020	https://docket.images.azcc.gov/E000005407.pdf
98	Interwest Energy Alliance	3/20/2020	https://doeket.images:azcc.gov/E000005464;pdf?i=1610266130487
99	3Degrees	3/20/2020	https://docket.images.azcc.gov/E000005451.pdf?i=1610266130487
00	Southwest Energy Efficiency Project, Western Grid Group, Sierra Club, Western Resource Advocates, Chispa Arizona, and Vote Solar	3/20/2020	https://docket.images.azcc.gov/E000005450.pdf?i=1610266130487
01	Interwest Energy Alliance	3/24/2020	https://docket.images.azcc.gov/E000005538.pdf
02	James Corbin and Bruce Plenk (Self)	3/26/2020	https://docket.images.azcc.gov/0000201289.pdf?i=1610266130487
)3	Southwest Energy Efficiency Project	4/8/2020	https://docket.images.azcc.gov/E000005829.pdf?i=1610266130487
)4	Anabeth Avila Arenas (Self)	4/13/2020	https://docket.images.azcc.gov/E000005898.pdf?i=1610266130487
05	Taylor Wyum (Self)	4/13/2020	https://docket.images.azcc.gov/E000005877.pdf?i=1610266130487
06	Ryan Tsingine (Self)	4/14/2020	https://docket.images.azcc.gov/E000005919.pdf?i=1610266130487
07	Mitchell W. Riner (Self)	4/14/2020	https://docket.images.azcc.gov/E000005916.pdf?i=1610266130487
08	Alexander Wilson (Self)	4/14/2020	https://docket.images.azcc.gov/E000005911.pdf?i=1610266130487
09	City of Tucson City Council and Mayor's Office	5/12/2020	https://docket.images.azec.gov/E000006462.pdf?i=1610266130487
10	Ceres	5/19/2020	http://docket.images.azcc.gov/E000006491.pdf?i=1610266130487.
11	John Carter (Self)	5/27/2020	https://docket.images.azcc.gov/E000006752.pdf?i=1610266130487
12	Shelly Gordon (Self)	5/27/2020	https://docket.images.azcc.gov/E000006751.pdf?i=1610266130487
13	Joanne Schlosser (Self)	6/6/2020	https://docket.images.azcc.gov/E000006875.pdf?i=1610266130487
14	Sixth Grade Student Ash Fork Middle School, Pamela Vazquez	6/8/2020	https://docket.images.azcc.gov/E000006938.pdf?i=1610266130487
5	Sunrun	6/11/2020	https://docket.images.azcc.gov/E000007025.pdf?i=1610266130487
6	Mary E. Anderson (Self)	6/15/2020	https://docket.images.azcc.gov/E000007042.pdf?i=1610266130487
7	Robert (Bob) Bendotti	6/16/2020	https://docket.images.azcc.gov/0000201647.pdf?i=1610266130487
18	Scott and Barbara Small (Self)	6/16/2020	https://docket.images.azcc.gov/0000201648.pdf?i=1610266130487
19	Rev. Andre Dargis (Self)	6/16/2020	https://docket.images.azcc.gov/0000201648.pdf?i=1610266130488
20	Shelly Gordon (Self)	6/19/2020	https://docket.images.azcc.gov/E000007136.pdf?i=1610266130487
21	City of Scottsdale and City of Fountain Hills	6/23/2020	http://docket.images.azcc.gov/E000007250.pdf?i=1610266130487
22	33 Individual Ratepayers	6/29/2020	https://docket.images.azcc.gov/0000201687.pdf?i=1610266130487
23	Coconino County Board of Supervisors	6/30/2020	https://docket.images.azcc.gov/E000007390.pdf?i=1610266130487
24	Office of Mayor Kate Gallego	6/30/2020	https://docket.images.azcc.gov/E000007355.pdf?i=1610266130487
25	Stephen Cook (Self)	6/30/2020	https://docket.images.azcc.gov/E000007370.pdf?i=1610266130487
26	Vote Solar and Solar United Neighbors	7/1/2020	https://docket.images.azcc.gov/E000007412.pdf?i=1610266130487
27	City of Flagstaff	7/2/2020	https://docket.images.azcc.gov/E000007445.pdf?i=1610266130487
28	City of Flagstaff	7/2/2020	https://docket.images.azcc.gov/E000007439.pdf?i=1610266130487
29	City of Mesa	7/2/2020	https://docket.images.azcc.gov/E000007468.pdf?i=1610266130487
0	Todd Madeksza (Self)	7/7/2020	https://docket.images.azcc.gov/E000007478.pdf?i=1610266130487
1	City of Tempe	7/10/2020	https://docket.images.azcc.gov/E000007537.pdf?i=1610266130487
32	79 Individual Ratepayers	7/10/2020	https://docket.images.azcc.gov/0000201767.pdf?i=1610266130487
33	Sierra Club, Tó Nizhoní Áni, Western Clean Energy Campaign, Diné CARE and Western Grid Group	7/13/2020	https://docket.images.azcc.gov/E000007581.pdf?j=1610266130487
34	Western Resource Advocates	7/27/2020	https://docket.images.azcc.gov/E000007821.pdf?i=1610266130487
35	Proctor Engineering Group	7/27/2020	https://docket.images.azec.gov/E000007818.pdf?i=1610266130487
36	Vote Solar, Sunrun, AriSEIA, Solar United Neighbors, Coalition for Community Solar Access	7/28/2020	https://docket.images.azcc.gov/E000007860.pdf?i=1610266130487
37	Arizona PIRG Education Fund and Wildfire	7/29/2020	https://docket.images.azcc.gov/E000007896.pdf?i=1610266130487
38	Western Grid Group, To Nizhoni Ani, Southwest Energy Efficiency Project, Sierra Club-Grand Canyon Chapter, Dine CARE, and Western	7/29/2020	https://docket.images.azcc.gov/E000007869.pdf?i=1610266130487
-	Resource Advocates		
39	Bruce Plenk (Self)	7/30/2020	https://docket.images.azcc.gov/E000007910.pdf?i=1610266130487
10	Karin Wadsack (Self)	7/30/2020	https://docket.images.azcc.gov/E000007909.pdf?i=1610266130487
11	Terry Finerock (Self)	7/30/2020	https://docket.images.azcc.gov/E000007908.pdf?i=1610266130487
12	City of Scottsdale, Office of Environmental Initatives	7/30/2020	https://docket.images.azcc.gov/E000007898.pdf?i=1610266130487
43	Kate Leinenweber (Self)	08/06/2020	https://docket.images.azcc.gov/E000008123.pdf?i=1610266130487
14	6 Individual Ratepayers	08/07/2020	https://docket.images.azcc.gov/E000008307.pdf?i=1610266130487
45	Robert Rutkowski (Self)	8/11/2020	https://docket.images.azcc.gov/E000008360.pdf?i=1610266130487
46	City of Scottsdale	9/17/2020	https://docket.images.azcc.gov/E000008993.pdf?i=1610266130487
47	101 Individual Ratepayers	9/29/2020	https://docket.images.azcc.gov/E000009278.pdf?i=1610266130487
48	Judith Anderson (Self)	9/29/2020	https://docket.images.azcc.gov/E000009267.pdf?i=1610266130487
49	City of Tucson	10/28/2020	https://docket.images.azcc.gov/E000009788.pdf?i=1610266130487
550	Arizona Technology Council	1/6/2021	https://docket.images.azcc.gov/E000010994.pdf?i=1610266130487

¥	Name	Organization/Person	Date	Hyperlink
i	Dr. Bonnie Bobb	Western Sustainable Working Group	April 30th, 2019	https://azcc.granicus.com/player/clip/3527?view_id=3&redirect=true
,	David Jenkins	Conservatives For Responsible Stewardship	April 30th, 2019	https://azcc.granicus.com/player/clip/3527?view_id=3&redirect=true
3	Dr. Bonnie Bobb	Western Sustainable Working Group	August 7th, 2019	https://azcc.granicus.com/player/elip/3629?view_id=3&redirect=true
1	Tajinder Uppal	Individual	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
5	James Moule	Individual	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
5	Diane Brown	Arizona PIRG Education Fund	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
7	Ellen Zuckerman	Southwest Energy Efficiency Project	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
3	Sandy Bahr	Sierra Club	August 7th, 2019	https://azec.granicus.com/player/clip/3629?view_id=3&redirect=true
)	Nona Siegel	Individual	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
10	Georgary Morris	Conservatives For Responsible Stewardship	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
1	Rikki Seguin	Interwest Energy Alliance	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
12	Adam Stafford	Western Resource Advocates	August 7th, 2019	https://azec.granicus.com/player/clip/3629?view_id=3&redirect=true
13	John Cortis	Individual	August 7th, 2019	https://azcc.granicus.com/player/clip/3629?view_id=3&redirect=true
14	Sandy Whittly	Chandler Resident	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
15	Art Terrazas	Vote Solar	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
16	Weston Berg	American Council for an Energy Efficient Economy	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
17	Emily Dufff	Ceres	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
8	Amanda Ormond	Western Grid Group	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
9	Diane Brown	Arizona PIRG Education Fund	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
20	Louisa Eberle	Sierra Club	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
21	Lori Glover	City of Scottsdale	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
22	Court Rich	AriSEIA	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
23	Sandy Bahr	Sierra Club	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
24	Bret Fanshaw	Solar United Neighbors	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
25	Ellen Zuckerman	Southwest Energy Efficiency Project	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
26	Nicole Horseherder	Tó Nizhóní Ání	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
27	Judith Anderson	Sunrise	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
28	Adam Stafford	Western Resource Advocates	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
29	Kyl Klein	AZ Youth Climate Coalition	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
30	Theo Massey	Chandler resident	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
31	Jennifer Cransten	Grand Canyon State Cooperative	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
32	Nate Blouin	Interwest Energy Alliance	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
33	Doug Bland	Arizona Interfaith Power & Light	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
34	Elias Ancharski	Osborne Maledon, Western States Petroleum	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
35	Craig Goodman	Individual	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
6	Stacey Champion	Individual	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
37	#35	Individual	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
38	Jessica Reinhart	SunRun	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
39	Marshall Johnson	Individual	July 30th, 2020	https://azcc.granicus.com/player/clip/4049?view_id=3&redirect=true
40	Craig Goodman	Individual	July 30th, 2020	https://azec.granicus.com/player/clip/4049?view_id=3&redirect=true
41	Shelley Gordon	Individual	March 10th - 11th, 2020	https://azec.granicus.com/player/clip/3832?view_id=3&redirect=true
42	Rev. Doug Bland	Arizona Interfaith Power & Light	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
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Nate Blouin	Interwest Energy Alliance	March 10th - 11th, 2020	https://azec.granicus.com/player/clip/3832?view_id=3&redirect=true
Diane Brown	Arizona PIRG Education Fund	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Robert Bulechek	Individual	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Timothy Nuvangyaoma	Hopi Tribe	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Carolyn Davies	Individual	March 10th - 11th, 2020	https://azcc.granicus.com/player/elip/3832?view_id=3&redirect=true
Steve Zylstra	Arizona Technology Council	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Jeanne Devine	Retired Sociologist	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Bret Fanshaw	Solar United Neighbors	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Father Sam Nasada	Franciscan Renewal Center	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Stormy Rose	Homeowner	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Char Hoffman	Prescott Resident	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Sandy Whittly	Registered Nurse	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Jim Combs	Solar and Water Heating Contractor	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Amanda Ormond	Western Grid Group	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
John Cortis	Civil Engineer	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Ron Roedel	ASU Professor	March 10th - 11th, 2020	https://azec.granicus.com/player/clip/3832?view_id=3&redirect=true
Laurin Hardin	Earth Justice Ministry of Unitarian Universalist Congregation of Phoenix	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Nicole Horseherder	Tó Nizhōni Áni	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
David Jenkins	Conservatives for Responsible Stewardship	March 10th - 11th, 2020	https://azcc.granicus.com/player/clip/3832?view_id=3&redirect=true
Caryn Potter	Southwest Energy Efficiency Project	March 10th - 11th, 2020	https://azec.granicus.com/player/clip/3832?view_id=3&redirect=true
	Diane Brown Robert Bulechek Timothy Nuvangyaoma Carolyn Davies Steve Zylstra Jeanne Devine Bret Fanshaw Father Sam Nasada Stormy Rose Char Hoffman Sandy Whittly Jim Combs Amanda Ormond John Cortis Ron Roedel Laurin Hardin Nicole Horseherder David Jenkins	Diane Brown Arizona PIRG Education Fund Robert Bulechek Individual Timothy Nuvangyaoma Hopi Tribe Carolyn Davies Individual Steve Zylstra Arizona Technology Council Jeanne Devine Retired Sociologist Bret Fanshaw Solar United Neighbors Father Sam Nasada Franciscan Renewal Center Stormy Rose Homeowner Char Hoffman Prescott Resident Sandy Whittly Registered Nurse Jim Combs Solar and Water Heating Contractor Amanda Ormond Western Grid Group John Cortis Civil Engineer Ron Roedel ASU Professor Laurin Hardin Earth Justice Ministry of Unitarian Universalist Congregation of Phoenix Nicole Horseherder Tó Nizhoni Áni David Jenkins Conservatives for Responsible Stewardship	Diane Brown Arizona PIRG Education Fund March 10th - 11th, 2020 Robert Bulechek Individual March 10th - 11th, 2020 Timothy Nuvangyaoma Hopi Tribe March 10th - 11th, 2020 Carolyn Davies Individual March 10th - 11th, 2020 Steve Zylstra Arizona Technology Council March 10th - 11th, 2020 Jeanne Devine Retired Sociologist March 10th - 11th, 2020 Bret Fanshaw Solar United Neighbors March 10th - 11th, 2020 Father Sam Nasada Franciscan Renewal Center March 10th - 11th, 2020 Stormy Rose Homeowner March 10th - 11th, 2020 Char Hoffman Prescott Resident March 10th - 11th, 2020 Sandy Whittly Registered Nurse March 10th - 11th, 2020 Jim Combs Solar and Water Heating Contractor March 10th - 11th, 2020 Amanda Ormond Western Grid Group March 10th - 11th, 2020 John Cortis Civil Engineer March 10th - 11th, 2020 Ron Roedel ASU Professor March 10th - 11th, 2020 Laurin Hardin Earth Justice Ministry of Unitarian Universalist Congregation of Phoenix Nicole Horseherder Tó Nizhoni Ání March 10th - 11th, 2020 David Jenkins Conservatives for Responsible Stewardship March 10th - 11th, 2020